

FINAL

Meeting Minutes

Meeting Subject: Norwalk Tank Farm Restoration Advisory Board (RAB) Quarterly Meeting	Meeting Date: <u>27 October 2005</u> Meeting Time: 6:30 p.m. Meeting Place: Norwalk Arts & Sports Complex
RAB, PROJECT TEAM, AND OTHER ATTENDEES	
<u>RAB Community Members</u> B. Hoskins M. McIntosh (Co-Chair) T. Winkler	<u>Other Members</u> A. Figueroa (City of Norwalk) K. Lee (RWQCB) M. Pitta (KMEP) (Co-Chair) Lt. Col. Ramer (DESC-AMW) (Co-Chair)
<u>Other Attendees</u> S. Chou (Geomatrix) R. Hassan (Parsons) K. Olowu (DESC) C. Silver (Parsons) J. Saucedo (Office of G. Napolitano) T. Whyte (URS)	DESC-AMW . Defense Energy Support Center Americas West GSA..... General Services Administration HHRA Human Health Risk Assessment KMEP..... Kinder Morgan Energy Partners OCCS Offsite Chemicals Cleanup Subcommittee RAB Restoration Advisory Board RBCA..... Risk-Based Corrective Action RWQCB Regional Water Quality Control Board SVE..... Soil Vapor Extraction URS..... URS Corporation WRD Water Replenishment District of Southern California
<u>Absentees</u> D. Caughey E. Garcia J. Holdren (City of Cerritos) N. Matsumoto (WRD) W. Miller W. Sterner	
<u>Not Attending</u> Dr. Duran (OCCS) Dr. Landolph (OCCS)	
<u>BACKGROUND</u> DESC-AMW and KMEP are conducting environmental cleanup activities at the area in and around the former Defense Fuel Support Point Norwalk, also known as the Tank Farm, located at 15306 Norwalk Boulevard, Norwalk, CA. The RAB is an advisory committee of local citizens and project members that reviews and comments on documents relating to the environmental cleanup. All RAB meetings are open to the public and are scheduled quarterly on the last Thursday of the month at 6:30 p.m. in January, April, July, and October unless otherwise voted on by the RAB community membership.	

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1. Introduction Mary Jane McIntosh, Community Co-Chair, Meeting Chair

Mary Jane McIntosh called the meeting to order at 6:42 p.m. Ms. McIntosh indicated that the Community Co-Chair election would be postponed until the January 2006 meeting due to the number of community members absent tonight. There were no comments on the July 28, 2005, meeting minutes. Bob Hoskins made motion to accept the minutes as written. Shioh-Whei Chou seconded the motion. The motion passed without opposition.

2. HHRA Update Mike Pitta, KMEP, and Shioh-Whei Chou, Geomatrix Consultants, Inc.

Shioh-Whei Chou said that the Human Health Risk Assessment (HHRA) Draft Work Plan was submitted to the RWQCB and the Off-Site Chemicals Cleanup Subcommittee (OCCS) for review on July 15, 2005. The deadline for receiving comments was extended to August 22, 2005. They met with Dr. Kwang-il Lee of the RWCQB on October 14, 2005, to finalize the scope of work. Dr. Lee added indoor air sampling to the scope of work. Dr. Lee said that indoor air sampling would only be necessary if they come across anything in the soil gas sampling. Mike Pitta said that if indoor air sampling were required, one problem would be that a lot of homes have other indoor air contamination from household items containing benzene and toluene. Ms. Chou said that residents would be notified in writing prior to the beginning of fieldwork and prior to any indoor air sampling, if necessary.

3. KMEP Update Mike Pitta, KMEP, and Shioh-Whei Chou, Geomatrix Consultants, Inc.

Remediation Operations Update

Ms. Chou displayed a map of the current remediation systems and indicated the groundwater extraction wells along the Western Barrier System.

From the Soil Vapor Extraction (SVE) System, approximately 11,500 gallons of equivalent fuel were removed from soil and destroyed by thermal oxidation since July 2005 RAB meeting. Approximately 444,100 gallons equivalent of fuel were removed from soil and destroyed by thermal oxidation since September 1995. The SVE system has operated for approximately 48,500 hours since September 1995. In the third quarter of 2005, six wells with low vapor concentrations were closed to the SVE system. KMEP also increased the SVE vacuum, which resulted in increased hydrocarbon mass removal rates.

Total groundwater extracted by the Groundwater/Product Extraction System since the July 2005 RAB meeting included: 187,500 gallons from the South Central Plume Area; 346,000 gallons from the Southeastern 24-inch Valve Area; and 1,368,400 gallons from the West Side Barrier Area. No free product was measured during the period.

Total groundwater extracted since September 1995 includes: 22.6 million gallons from the South Central Plume Area; 6.2 million gallons from the Southeastern 24-inch Block Valve Area; and 17.7 million gallons from the West Side Barrier Area. A total of 46.5 million gallons of groundwater have been extracted, and 8,745 gallons of free product have been removed.

During the second quarter of 2005, four of the eight Total Fluid (TF) pumps in the South-Central Area were replaced with groundwater extraction pumps. KMEP is collecting groundwater data such as extraction rates, water levels, and water quality. KMEP is making ongoing adjustments to sustain a 1-gallon per minute extraction rate. MTBE (methyl tertiary butyl ether) concentrations continue to decrease in the southeastern area. KMEP will turn off groundwater extraction in well GMW-SF-10.

NPDES Renewal

KMEP is in the progress of renewing their National Pollutant Discharge Elimination System (NPDES) Permit with the RWQCB. The permit is required for the water that is discharged into the storm drain from the treatment system. The draft permit was received on September 12, 2005. A public notice was posted at the

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site on October 3, 2005. The final permit is expected on December 4, 2005. Mr. Hoskins asked if the water could be reused. Mr. Pitta said they would not want to reuse it on-site, because they are not sure what affect it would have on the plumes. Ms. McIntosh said that drinking water is found much deeper.

Groundwater Flow Question

Ms. Chou showed some maps regarding groundwater flow. She said that in 2002, groundwater flow was generally to the northwest, and there was some influence from groundwater extraction. In 2003, the Westside Barrier Wells affected flow, but it was still generally towards the northwest. In 2004, flow was to the northwest, except in areas near groundwater pumping. In 2005, groundwater flow appeared more westerly. There were more rain events in the past year. Groundwater levels rose up to six feet. A mound was observed in the southeastern area, possibly due to infiltration of rainwater. More measuring will take place next week. There were new detections of MTBE and benzene in two offsite wells that were normally non-detect. It may be due to the rainwater. Ms. McIntosh said she wonders if it was something from the Park area. Maps show it could be a possibility. It is not necessarily a new source, but something that was out there and the change in groundwater flow brought it over to the wells. These wells will be monitored during the groundwater monitoring event next week.

Eastern Boundary Area Update

KMEP and DESC are jointly conducting the next phase of investigation to delineate the dissolved plume in the Eastern Boundary area. A work plan prepared by Parsons was approved by RWQCB on August 30, 2005. They are currently waiting for the City of Norwalk to issue permits and for access to Holifield Park.

4. DESC-AMW Update Redwan Hassan, Parsons

Central Plume Remediation System Update

Performance results for the third quarter of 2005 indicate that 7,540 gallons of total hydrocarbon mass were removed. Of this, 2,965 gallons were recycled and destroyed and 4,575 gallons of hydrocarbons were destroyed by enhanced biodegradation. Ms. McIntosh asked about system enhancement. Mr. Hassan said that they will have a report on bioventing at the next meeting. Mr. Hassan also said that they had a problem with the PLC "brain" of the remediation system so they did not recover as much water this past quarter. The system needs to be reprogrammed.

Since April 1996, approximately 284,531 gallons of total hydrocarbon mass were removed: 55,538 gallons of free product were recovered; 1,397 gallons of dissolved phase hydrocarbons were recovered; 99,507 gallons of volatile hydrocarbons were recovered through soil vapor extraction; and estimated 135,628 gallons of hydrocarbons were destroyed due to enhanced biodegradation. Approximately 42.2 million gallons of groundwater were treated.

Remediation Optimization

Tank Farm soil remediation, which began in April 2004, continued with the SVE system and through biodegradation. SVE removed about 1,900 gallons with the Tank Farm and Water Tank area. SVE removed greater than 1,000 gallons from the Truck Fill Stand area. Biodegradation removed greater than 4,500 gallons. Operation of the biosparge wells continued. DESC is working to update the groundwater treatment system PLC controls to allow continued extraction from the Total Fluid wells. Cannon Silver said that they conducted Sentry Event monitoring in August. They tested about 10 wells. The report is being finalized and will be completed in one to two weeks. Tracy Winkler asked how they measure hydrocarbons removed. Mr. Hassan said that they use mathematical calculations to convert the measured extracted hydrocarbon vapor concentration and flowrate into the estimated gallons removed. Mr. Silver said that the collected soil vapor is run through the thermal oxidizer to burn it. Mr. Hoskins asked about the amount of fuel originally underground. Lt. Col. Ramer said that it is unlikely that there are still unidentified areas of fuel under the site, since they have already treated millions of gallons. Mr. Hassan said that since DESC no longer operates at the

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site, and that there is no source for any further contamination. He said that 55,000 gallons of free product has been removed since the system startup. For the past few years, no more free product has been recovered. Ten years ago, the free product levels were at 9 to 10 feet. Now they are very thin, less than one foot. Now they are targeting the soil for cleanup with biodegradation and the biosparging wells. Lt. Col. Ramer said that eventually the soil may be cleaner inside than outside the site.

Mr. Hassan next showed a map of the new biosparge and vapor extraction wells. New wells are located in high concentrations areas to the east, central, west, and near the Truck Fill Stand. The wells are connected to the main treatment system in the northern area. Progress is being made from these new wells.

Regulatory Interactions

Mr. Silver met with Dr. Lee to discuss proceeding with the on-site and Eastern Boundary off-site investigation with KMEP. They are working with the City for access approval. Dr. Lee approved replacing vapor extraction wells with bioventing. This will help with less consumption of natural gas and will help enhance remediation. Dr. Lee also approved not pumping from groundwater wells. However, DESC must continue pumping from higher concentration Total Fluid wells. They were granted access to a well owned by Goldenwest near the Park and will collect groundwater samples from it. Mr. Hassan also showed a map of the proposed boring locations for the Eastern Boundary investigation.

Remediation Progress

DESC installed on-site borings to evaluate the SVE progress. The Tank Farm area results varied, with up to 79 percent reduction in soil concentrations. The Water Tank area soil borings indicated 57 to 99.9 percent reduction in TPH as JP-5. The Truck Fill Stand area indicated a 98 percent reduction in TPH. They will proceed with respiration testing to further evaluate remediation progress.

5. Set Date and Agenda for Next Meeting

The next RAB meeting will be held **Thursday, January 26, 2006, at 6:30 p.m.** in the Norwalk Arts & Sports Complex. The agenda is to include Community Co-Chair election, Groundwater Monitoring Report, Sentry Event, bioventing report, and KMEP and DESC remediation updates.

6. Public Comment Period

Ms. McIntosh said that Congresswoman Napolitano suggested a presentation to the Dolland Elementary School and also suggested a community meeting. Ms. McIntosh said she would check into it. Ms. Winkler asked if there was any harm to the children. Mr. Hassan said that they have permits from the Air Quality Management District (AQMD) for safe operation of their thermal oxidizer. The soil contamination is over 20 feet below ground, so people cannot come in contact or be exposed to it, so they are directly affected.

Ms. McIntosh adjourned the meeting at 7:58 p.m.

ACTION ITEMS

Item	Responsible Party	Due Date
Next RAB meeting	All	1/26/06